

IDAHO CONTENT STANDARDS
GRADE 5
SCIENCE

Standard 1: Nature of Science

Goals:	Objective 1	Objective 2	Objective 3	Objective 4	Objective 5	Objective 6	Objective 7
Goal 1.1: Understand Systems, Order, and Organization	5.S.1.1.1 Compare and contrast different systems. (603.01.a)						
Goal 1.2: Understand Concepts and Processes of Evidence, Models, and Explanations	5.S.1.2.1 Use observations and data as evidence on which to base scientific explanations and predictions. (603.02a)	5.S.1.2.2 Explain the difference between observation and inference. (603.02.b)	5.S.1.2.3 Use models to explain or demonstrate a concept. (603.02.c)				
Goal 1.3: Understand Constancy, Change, and Measurement	5.S.1.3.1 Analyze changes that occur in and among systems. (603.03.b)	5.S.1.3.2 Measure in both U.S. Customary and International System of Measurement (metric system) units with an emphasis on the metric system. (603.03.c)					
Goal 1.4: Understand the Theory that Evolution is a Process that Relates to the Gradual Changes in the Universe and of Equilibrium as a Physical State	No objectives at this grade level.						
Goal 1.5: Understand Concepts of Form and Function	5.S.1.5.1 Explain how the shape or form of an object or system is frequently related to its use or function. (603.05.a)						
Goal 1.6: Understand Scientific Inquiry and Develop Critical Thinking Skills	5.S.1.6.1 Write and analyze questions that can be answered by conducting scientific experiments. (604.01.a)	5.S.1.6.2 Conduct scientific investigations using a control and a variable. (604.01.b)	5.S.1.6.3 Select and use appropriate tools and techniques to gather and display data. (604.01.c)	5.S.1.6.4 Use evidence to analyze descriptions, explanations, predictions, and models. (604.01.d)	5.S.1.6.5 State a hypothesis based on observations. (604.01.e)	5.S.1.6.6 Compare alternative explanations and predictions. (604.01.f)	5.S.1.6.7 Communicate scientific procedures and explanations. (604.01.g)
Goal 1.7: Understand That Interpersonal Relationships Are Important in Scientific Endeavors	No objectives at this grade level.						
Goal 1.8: Understand Technical Communication	5.S.1.8.1 Read and follow technical instructions. (613.02.a)						

Standard 2: Physical Science

Goals:	Objective 1	Objective 2	Objective 3	Objective 4	Objective 5	Objective 6	Objective 7
Goal 2.1: Understand the Structure and Function of Matter and Molecules and Their Interactions	5.S.2.1.1 Describe the differences among elements, compounds, and mixtures. (605.01.a)	5.S.2.1.2 Compare the physical differences among solids, liquids, and gases. (605.01.c)	5.S.2.1.3 Explain the nature of physical change and how it relates to physical properties. (605.01.d)				
Goal 2.2: Understand Concepts of Motion and Forces	No objectives at this grade level.						
Goal 2.3: Understand the Total Energy in the Universe is Constant	No objectives at this grade level.						
Goal 2.4: Understand the Structure of Atoms	No objectives at this grade level.						
Goal 2.5: Understand Chemical Reactions	No objectives at this grade level.						

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Standard 3: Biology

Goals:	Objective 1	Objective 2	Objective 3	Objective 4	Objective 5	Objective 6	Objective 7
Goal 3.1: Understand the Theory of Biological Evolution	No objectives at this grade level.						
Goal 3.2: Understand the Relationship between Matter and Energy in Living Systems	5.S.3.2.1 Communicate how plants convert energy from the sun through photosynthesis. (608.01.a)						
Goal 3.3: Understand the Cell is the Basis of Form and Function for All Living Things	5.S.3.3.1 Compare and contrast the structural differences between plant and animal cells. (606.01.b)	5.S.3.3.2 Explain the concept that traits are passed from parents to offspring. (606.01.c)					

Standard 4: Earth and Space Systems

Goals:	Objective 1	Objective 2	Objective 3	Objective 4	Objective 5	Objective 6	Objective 7
Goal 4.1: Understand Scientific Theories of Origin and Subsequent Changes in the Universe and Earth Systems	5.S.4.1.1 Describe the interactions among the solid earth, oceans and atmosphere (erosion, climate, tectonics and continental drift). (609.01.a)						
Goal 4.2: Understand Geo-chemical Cycles and Energy in the Earth System	5.S.4.2.1 Explain the rock cycle and identify the three classifications of rocks. (609.02.a)						

Standard 5: Personal and Social Perspectives; Technology

Goals:	Objective 1	Objective 2	Objective 3	Objective 4	Objective 5	Objective 6	Objective 7
Goal 5.1: Understand Common Environmental Quality Issues, Both Natural and Human Induced	5.S.5.1.1 Identify issues for environmental studies. (611.01.a)						
Goal 5.2: Understand the Relationship between Science and Technology	5.S.5.2.1 Describe how science and technology are part of a student’s life. (610.01.a)	5.S.5.2.2 List examples of science and technology. (610.01.b)					
Goal 5.3: Understand the Importance of Natural Resources and the Need to Manage and Conserve Them	5.S.5.3.1 Identify the differences between renewable and nonrenewable resources. (611.03.a)						